

PATENT COOPERATION TREATY

PCT

CORRECTED

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

VER	810	X
CODE	DATE	NTD
INXOM	07 MAR 2005	GIPS

Applicant's or agent's file reference 100993-1 WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, Item 5 below.	
International application No. PCT/GB2004/002684	International filing date (day/month/year) 24/06/2004	(Earliest) Priority Date (day/month/year) 30/06/2003
Applicant ASTRAZENECA AB		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 06 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☒ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

4. With regard to the title,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

FLUORESCENCE ASSAYS FOR NUCLEIC ACID POLYMERASE ACTIVITY.

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of Item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material



a sequence listing



table(s) related to the sequence listing

b. format of material



in written format



in computer readable form

c. time of filing/furnishing



contained in the international application as filed



filed together with the international application in computer readable form



furnished subsequently to this Authority for the purpose of search

2. ☒ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/46714 A1 (UNIV. OF UTAH RES. FOUNDATION) 11 December 1997 (1997-12-11)	1-13,15
Y	abstract; claims 6,30 page 8, line 1 - page 12, line 22	16
X	MAUDRU T. ET AL.: "ADAPTATION OF THE FLUOROGENIC 5'-NUCLEASE CHEMISTRY TO A PCR-BASED REVERSE TRANSCRIPTASE ASSAY" BIOTECHNIQUES, EATON PUBLISHING, US, vol. 25, no. 6, December 1998 (1998-12), pages 972-975, XP001135067 ISSN: 0736-6205	1-4, 7-13,15
Y	the whole document	16
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

4 February 2005

Date of mailing of the international search report

04. 03. 05

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 01/38587 A2 (GLAXO GROUP LIMITED) 31 May 2001 (2001-05-31) cited in the application abstract; claims 1,4-6,13,18,20-23,30,37-41,47 -----	1,7-10, 15,16
Y	WO 01/27318 A2 (QUIP TECHNOLOGY LIMITED) 19 April 2001 (2001-04-19) page 4, line 15 - page 5, line 10; claims 1,9 -----	1,7-10, 15,16
Y	US 5 635 349 A (LAMARCO K. ET AL.) 3 June 1997 (1997-06-03) abstract; claims 1-7 column 1, line 55 - column 2, line 16 -----	16
A	HIYOSHI M. ET AL.: "ASSAY OF DNA DENATURATION BY POLYMERASE CHAIN REACTION-DRIVEN FLUORESCENT LABEL INCORPORATION AND FLUORESCENCE RESONANCE ENERGY TRANSFER" ANALYTICAL BIOCHEMISTRY, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 221, no. 2, 1 September 1994 (1994-09-01), pages 306-311, XP000460389 ISSN: 0003-2697 cited in the application abstract; figure 1 -----	1-16
A	US 6 287 781 B1 (LEE M.A. ET AL.) 11 September 2001 (2001-09-11) abstract -----	1-16
A	TYAGI S. ET AL.: "MOLECULAR BEACONS: PROBES THAT FLUORESCCE UPON HYBRIDIZATION" BIO/TECHNOLOGY, NATURE PUBLISHING CO., vol. 14, March 1996 (1996-03), pages 303-308, XP002926498 ISSN: 0733-222X the whole document -----	1-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9746714	A1	11-12-1997	AT 260988 T 15-03-2004
			AU 727296 B2 07-12-2000
			AU 3154797 A 05-01-1998
			AU 729644 B2 08-02-2001
			AU 3380097 A 05-01-1998
			AU 726501 B2 09-11-2000
			AU 3481297 A 05-01-1998
			CA 2256612 A1 11-12-1997
			CA 2256773 A1 11-12-1997
			CA 2257109 A1 11-12-1997
			DE 69727932 D1 08-04-2004
			EP 1179600 A1 13-02-2002
			EP 1442794 A2 04-08-2004
			EP 1493826 A1 05-01-2005
			EP 0912760 A2 06-05-1999
			EP 0906449 A2 07-04-1999
			EP 0912766 A1 06-05-1999
			EP 1033411 A2 06-09-2000
			ES 2215230 T3 01-10-2004
			JP 2000512138 T 19-09-2000
			JP 2000511435 T 05-09-2000
			JP 2000509608 T 02-08-2000
			KR 2000016161 A 25-03-2000
			KR 2000016326 A 25-03-2000
			NZ 333135 A 28-02-2000
			NZ 333136 A 27-03-2000
			NZ 333137 A 27-03-2000
			NZ 502323 A 28-09-2001
			WO 9746707 A2 11-12-1997
			WO 9746712 A2 11-12-1997
			US 2004002098 A1 01-01-2004
			US 6245514 B1 12-06-2001
			US 6232079 B1 15-05-2001
			US 2002058258 A1 16-05-2002
			US 6174670 B1 16-01-2001
WO 0138587	A2	31-05-2001	AU 1933701 A 04-06-2001
			CA 2395353 A1 31-05-2001
			EP 1234052 A2 28-08-2002
			JP 2003514573 T 22-04-2003
			US 2004170966 A1 02-09-2004
WO 0127318	A2	19-04-2001	AU 7674800 A 23-04-2001
			EP 1220951 A2 10-07-2002
US 5635349	A	03-06-1997	AU 688190 B2 05-03-1998
			AU 4369296 A 19-06-1996
			CA 2205804 A1 06-06-1996
			EP 0793730 A1 10-09-1997
			JP 3431164 B2 28-07-2003
			JP 10510429 T 13-10-1998
			WO 9617084 A1 06-06-1996
US 6287781	B1	11-09-2001	AU 746149 B2 18-04-2002
			AU 2538399 A 06-09-1999
			CA 2321185 A1 26-08-1999
			CN 1297488 T 30-05-2001
			CZ 20002958 A3 13-02-2002

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6287781	B1	EP 1055002 A1	29-11-2000
		WO 9942611 A1	26-08-1999
		HU 0101385 A2	28-08-2001
		JP 2003512808 T	08-04-2003
		NZ 506333 A	25-10-2002
		RU 2199588 C2	27-02-2003
		SK 12212000 A3	10-09-2002
